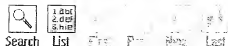


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JP2000126168A [20000509](#) [FullText](#)

Title: (ENG) BONE IMAGE PROCESSING METHOD AND BONE STRENGTH EVALUATION METHOD

Abstract: (ENG)

PROBLEM TO BE SOLVED: To obtain an index better reflecting the strength of a bone rather than the density thereof by repeating for the whole of a bone image a processing in which a scanning is made in the direction of the starting point of a raster scanning line from the bottom side of an isosceles triangle to determine an extracted bone region as cortical bone region and the cortical bone region is finally defined if an element of a bone image exists within the region to separate the bone image into the cortical bone region and a bone beam region.

SOLUTION: Firstly, a raster scanning line is extended from a starting point and when the raster scanning line reaches a bone region, an isosceles triangle is set having the reached point as apex and the axis of the scan line as height and the apex is fixed to specify an isosceles triangle that can maximize the area thereof as far as drawn in the bone region. A scanning is made reversely to the starting point of the raster scanning from the bottom side of the specified isosceles triangle to determine the selected bone area as cortical bone area and if any element of a bone image exists in the region, it is imaged. Upon the completion of the imaging by the processing, the imaged bone region can be separated as cortical bone region and the non-imaged bone region as bone beam region.

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Other Abstracts for This Document: DERABS G2000-380111

Patents Citing This One (1):

→ WO2006085525A1 20060817 HITACHI MEDICAL CORP JP; GOTO YOSHIHIRO JP; NAKAGAWA TORU JP
DIAGNOSTIC IMAGING SUPPORT SYSTEM AND DIAGNOSTIC IMAGING SUPPORT PROGRAM

Legal Status: There is no Legal Status information available for this patent



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